We claim

~~Patent claims~~

1. An arrangement for cooling electrical subassemblies (BG) arranged in a housing (G), having

- at least one water-repellent membrane filter (MB), in each case arranged in an air inlet (LE) of the housing (G), for the surface filtration of dirt particles from cooling air flowing in for cooling the electrical subassemblies (BG), and
- at least one cooling device (VE) to build up an airflow in the housing (G) and to lead the filtered cooling air, heated up because of flowing through the subassemblies (BG), out of the housing (G) through at least one air outlet (LA).

2. The arrangement as claimed in claim 1, ~~having~~ which includes an air guide device ~~(LLE)~~ being arranged respectively underneath and/or above the electrical subassemblies ~~(BG)~~ to guide the filtered cooling air through one subassembly ~~(BG)~~ in each case.

3. The arrangement as claimed in ~~a preceding~~ claim 1, ~~having~~ which includes an air guide device ~~(LLE)~~ arranged respectively underneath and/or above the electrical subassemblies ~~(BG)~~ to shield the subassembly ~~(BG)~~.

4. The arrangement as claimed in ~~a preceding~~ claim 1, ~~having~~ which includes a motor-driven fan wheel as the cooling device ~~(VE)~~.

5. The arrangement as claimed in ~~the preceding~~ claim 4, ~~having~~ which includes a control device ~~(ST)~~ to control the motor speed of the cooling device ~~(VE)~~ as a function of the temperature

in the interior of the housing ~~(G)~~ and/or of the temperature of the cooling air flowing in.

6. The arrangement as claimed in ~~the preceding~~ claim 5, wherein ~~in which~~ the control device ~~(ST)~~ controls the cooling device ~~(VE)~~ in such a way that the direction of the air flow in the housing ~~(G)~~ is reversed, so that cooling airflows in through the air outlet ~~(LA)~~ and is led out through the membrane filter ~~(MB)~~, the membrane filter ~~(MB)~~ being freed of deposited dirt particles by the cooling air flowing out.

7. The arrangement as claimed in ~~a preceding~~ claim 1, wherein ~~in which~~ the air inlet ~~(LE)~~ is arranged in the side and/or bottom area of the housing ~~(G)~~ in such a way that the cooling air flowing in acts on the undersides of the subassemblies ~~(BG)~~.

8. The arrangement as claimed in ~~one of the preceding claims~~ claim 1, wherein in which the air outlet ~~(LA)~~ for leading the filtered and heated cooling air out is arranged in the upper and/or side area of the housing ~~(G)~~.

~~9. A base station (BTS) of a mobile radio system or of an access network system, having an arrangement for cooling as claimed in one of claims 1 to 8.~~